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LONDON:

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ADDITIONS AND CORRECTIONS TO THE RECORDED SPECIES OF TRINIDAD BUTTERFLIES (LEPID. RHOP.)

By W. J. KAYE, F.R.E.S.

Manuscript received 16th March, 1940.

(Read 5th June, 1940.)

THE present list of additions is made up of:—

DANAIIDAE (ITHOMIINAE)	1
NYMPHALIDAE (NYMPHALINAE)	6
SATYRIDAE	2
ERYCINIDAE	30
LYCAENIDAE	27
PAPILIONIDAE	2
PIERINAE	1
HESPERIIDAE	68
	137

In my last published "Catalogue of the Trinidad Lepidoptera Rhopalocera" in 1921, *Mem. Dept. of Agric. Trinidad and Tobago* 2 there was recorded 461 species made up with:—

DANAIIDAE (DANAINAE)	2
„ (LYCOREINAE)	1
„ (ITHOMIINAE)	12
„ (ACRAEINAE)	2
HELICONIIDAE	10
NYMPHALIDAE	65
MORPHIDAE	1
BRASSOLIDAE	10
SATYRIDAE	22
ERYCINIDAE	78
LYCAENIDAE	58
PAPILIONIDAE (PIERINAE)	24
„ (PAPILIONINAE)	11
HESPERIIDAE	165
	461

Thus the two lists together give a total of no fewer than 598 species made up of:—

DANAIDAE	18
NYMPHALIDAE	71
HELICONIIDAE	10
BRASSOLIDAE	10
SATYRIDAE	24
ERYCINIDAE	108
LYCAENIDAE	86
PAPILIONIDAE	38
HESPERIIDAE	233
	598 ¹

It will be seen that the HESPERIIDAE form a great deal more than one-third of the total and that the ERYCINIDAE come next with about one-sixth of the total. The number of LYCAENIDAE will no doubt be considerably added to. Many species are rare and local and although 85 is already a large number it is certain that plenty of additions will be made. In the NYMPHALIDAE and PAPILIONIDAE a number of species are migratory from Venezuela. *Eunica monima*, *Eunica venusia* and probably such fast-flying insects as *Prepona* and *Anaea* species and in the PAPILIONIDAE *Papilio torquatus* and *Papilio lycophron* besides several species of PIERINAE.

The method of numbering is done so that those with a Trinidad collection can place the additions in their right order. Thus 347a, b, and c follow 347 of the last published catalogue (1921). Only one new subspecies is here described: *Sostrata pusilla manzanilla*. There are no new species, which is scarcely surprising, seeing how many collectors have visited Trinidad in the past decade.

To the following entomologists I am indebted for help in compiling this list: Mr. Ernest L. Bell, Mr. A. Hall, Mr. W. G. Sheldon, Mr. E. I. Huntingdon, the late Mr. R. Dick, the late Dr. F. W. Jackson, the late Mr. E. E. Fabien, the late Mr. F. W. Urich, Mr. G. Thompson, Mr. Fulda, Mr. Critchley and Sir Norman Lamont.

The rapid exploitation of the oil in the south may in the not-distant future affect the fauna and flora in that part of the island, but in the northern hills, except in the immediate neighbourhood of Port of Spain, very little alteration has taken, or is yet taking, place.

DANAIDAE.

ITHOMIINAE.

5. *Melinaea mneme sola* Kaye.

Melinaea mneme sola Kaye, *Trans. ent. Soc. Lond.* 1924 : 413.

Melinaea tachypetis Kaye (*nec* Feld.), *Trans. ent. Soc. Lond.* 1904 : 163.

As pointed out in 1924, *Trans. ent. Soc. Lond.*, the name *tachypetis* Feld. is a pure synonym of *imitata* Bates and the Trinidad insect a well-marked island race of the widely spread species *mneme* Linn. (true). In Seitz, *Macrolep. World* 5 : 123, pl. 33b *mneme* is wrongly called *mediatrix* Weym.

¹ Now 600, with 1 deduction and 3 additions.

9. *Dircenna lenea siparia* Kaye.

Dircenna lenea siparia Kaye, 1921, *Proc. ent. Soc. Lond.* 1921 : xvii.

♀ *Dircenna melanida* Cram., *Pap. Exot.* 3 t. 231, F female.

Dircenna lenea Cram., do., D male.

A markedly different race, it being altogether more suffused with yellow. In addition the band of the hind-wing is nearly double the width and the discal black band of the fore-wing broad and heavy contrasting with a narrow and sometimes a total absence of the band in the typical form.

10a. *Ithomia lycaste iphianassa* Doubleday.

Ithomia iphianassa Dbl. & Hew., 1847, *Gen. Diurn. Lep.* E 18 : 3.

Ithomia lycaste Fab., 1793, *Syst. Ent.* 3 (1) : 161 n. 497.

Ithomia panamensis Godm. & Salv., 1879, *Biol. Cent. Amer. Rhop.* 1 : 48, pl. v, p. 3.

Range of species : Kansas to Colombia, Venezuela.

Range of subspecies : Venezuela.

One in Coll. Dick taken on the hill at the back of Stauble's Bay on the island of Trinidad opposite the island Gasperee. The finding of the species at near sea level is curious as usually it is found commonly at an elevation of 3000 ft.

HELICONIIDAE.

21. *Heliconius wallacei latus* Kaye.

Heliconius wallacei latus Kaye, 1924, *Trans. ent. Soc. Lond.* 1924 : 413.

Heliconius wallacei wallacei Kaye (nec Stich.) 1921, and in *Mem. Dept. Agric. Trinidad and Tobago* 2 : 23.

A rather remarkably constant race of this variable species. The band is always broader especially in the middle than in *wallacei wallacei*.

NYMPHALIDAE.

NYMPHALINAE.

50a. *Pyrrhogyra crameri crameri* Aurivillius.

Pyrrhogyra crameri Aur. 1882, *K. Sv. Vet. Akad. Handl.* 19 : 98.

Pyrrhogyra nearea Cr. (nec L.), 1779, *Pap. Exot.* 1 : t. 75 c. C. d.

Pyrrhogyra crameri Seitz, 1914, *Macrolep. World* 5 : 475, pl. 95c.

Range of species : Guiana, Peru, Colombia.

Range of subspecies : Guiana.

Moruga, iii.1922 (*E. E. Fabien*); Erin, 5.ii.1905 (*F. Birch*). This specimen was found among Birch's unset butterflies after his death.

Eresia ofella Hewitson.

Eresia ofella Hew., 1864, *Exot. Butt.* 3 : t. 3, ff. 18, 19.

Eresia clara Rober (nec Bates) in Seitz, 1915, *Macrolep. World* 5 : 446, pl. 92h.

Range : Guiana, Colombia.

Taken by Mr. R. Dick. Evidently a rare species.

55a. *Eunica monima modesta* (Cramer).

Papilio monima Cram. 1782, *Pap. Exot.* 4 : t. 387, ff. F, G.

Eunica modesta Bates, 1864, *Ent. mon. Mag.* 1 : 113, n. 45.

Eunica monima modesta Seitz, 1916, *Macrolep. World* 5 : 485, pl. 100 Ab.

Eunica pusilla Bates, 1864, *J. Ent.* 2 : 198, pl. 9, ff. 5, 5a.

Eunica pusilla Godm. & Salv., 1883, *Biol. Cent. Amer. Rhop.* 1 : 228.

Range of species : Guatemala to Venezuela, Cuba.

Range of subspecies : Guatemala to Venezuela.

Another notable discovery by Mr. R. Dick. First taken at Rio Claro 19.x.1924. Larva feeds on *Bursera gummifera*, the turpentine tree or Gommier. The pupal period is only 7 days.

55a. *Eunica venusia* (Felder).

Faunia venusia Feld., 1867, *Reise Nov.* 3 : 407, n. 614, t. 52, f. 3-5.

Eunica venusia Seitz, 1915, *Macrolep. World* 5 : 488, pl. 100Bc.

Eunica venusia Godm. & Salv., 1883, *Biol. Cent. Amer. Rhop.* 1 : 226, pl. xxiii, ff. 12-13.

Range : Colombia, Panama.

A single ♀ amongst the unarranged specimens at the Experimental Station. The occurrence of this species, if an accidental mixing up of specimens has not occurred, is remarkable. The species may be a migrant and is certainly very doubtfully resident in the Island.

71a. *Adelpha seriphia* (Felder).

Heterochroa seriphia Felder, 1867, *Reis. Novara Lep.* : 423.

Adelpha seriphia Seitz, 1915, *Macrolep. World* 5 : 531.

Range : Colombia, East Cordillera, Venezuela.

A mountain species occurring on the mainland up to 6500 feet ; in Trinidad, only over 2000 feet where it is rare. First taken by Mr. R. Dick.

72. *Adelpha melona nonsecta* Kaye.

Adelpha melona nonsecta Kaye, 1924, *Trans. ent. Soc. Lond.* 1924 : 413.

Adelpha melona Kaye, *Mem. Dept. Agric. Trinidad and Tobago* 2 : 39.

This is a rare species in the island and it would be interesting to know whether the usual Guiana form with the fore-wing band constricted ever occurs.

73. *Adelpha phliassa symona* Kaye.

Adelpha phliassa symona Kaye, 1924, *Trans. ent. Soc. Lond.* 1924 : 414.

Adelpha plesaure Kaye (nec Hüb.), 1921, *Mem. Dept. Agric. Trinidad and Tobago* 2 : 39.

Quite a well-marked island form with the fore-wing band markedly broader. It is remarkable that all the species of *Adelpha* from Trinidad differ from the type forms.

80. *Chlorippe laure lauricola* Kaye.

Chlorippe laure lauricola Kaye, 1924, *Trans. ent. Soc. Lond.* 1924 : 414.

Chlorippe laure Kaye, 1921, *Mem. Dept. Agric. Trinidad and Tobago* 2 : 41.

Like some other Trinidad races, a small form that appears to be quite constant.

86a. *Coea acheronta* (Fabricius).

Papilio acheronta Fabr., 1775, *Syst. Ent.* : 501.

Coea acheronta Seitz, 1914, *Macrolep. World* 5 : 471, pl. 104d.

Papilio cadmus Cram., 1775, *Pap. Exot.* 1.

Range : Mexico to S. Brazil, Tobago.

A rare species in Trinidad, recorded by R. Dick.

SATYRIDAE.

111a. *Euptychia calpurnia* (Felder).

Neonympha calpurnia Feld., 1867, *Reise Nov.* 1 : 484.

Euptychia calpurnia Seitz, 1910, *Macrolep. World* 5 : 194.

Range : French and Dutch Guiana.

Only one record from the northern hills, xii.1938-i.1939 (*A. Hall*).

Seitz makes this species a race of *hesione* but it is abundantly distinct and occurs on the same ground as *hesione* in Trinidad.

112a.² *Euptychia ocypete* (Fabricius).

Papilio ocypete Fabr., 1777, *Gen. Ins.* : 260.

Range : Lower Amazon, Para, the Guianas.

Morne Diable, 10.i.1921 (*W. J. K.*).

Originally recorded by W. M. Crowfoot and now confirmed.

One of the species with a bluish-grey upperside.

LIBYTHEIDAE.

125a. *Libythea carinenta* (Cramer).

Papilio carinenta Cram., 1779, *Pap. Exot.* 2 : t. 108, E, F.

Libythea carinenta Seitz, 1917, *Macrolep. World* 5 : 623.

Range : Texas to Paraguay and Argentina (Buenos Aires).

First taken by Mr. A. Hall. Rock Penal road (*Y. Critchley*), v.1932.

The species appears to be very uncommon in Trinidad and I never met with it there.

ERYCINIDAE.

126a. *Euselasia eustachia sergia* Godman & Salvin.

Papilio eustachia Herbst & Jabl., 1796, *Nat. Schmett.* 8 : 77, t. 193, ff. 8, 9.

Euselasia sergia Godm. & Salv., 1885, *Biol. Cent. Amer. Lepid.* 1 : 367, pl. 39, ff. 9-12.

Range of species : Guatemala to Amazon.

Range of subspecies : Guatemala to Panama.

One at Matura on *Inga* (Pois doux), 26.i.1921 (*W. J. K.*).

130a. *Hermathena candida* Hewitson.

Hermathena candida Hew., 1874, *Descr. Butt. Boliv.* : 16; 1876, *Exot. Butt.* 5 : (5) t. 32, f. 1.

Hermathena candida Seitz, 1917, *Macrolep. World* 5 : 650, M. 126d.

Range : Amazon to Bolivia and Colombia.

Local and rare.

Maupertuis (*R. Dick*), first record.

133. *Mesosemia methion maera* Hewitson.

Mesosemia methion maera Hew., 1873, *Exot. Butt.* 5 : t. 12, 114, 115.

Mesosemia methion albata Stich., 1924, *Deuts. ent. Z.* 1924 : 409.

Stichel has recently described the Trinidad race of *M. methion* as *albata* ; but Hewitson in 1873 described the Trinidad species as *maera*. Hewitson's name thus stands. The Trinidad race is quite distinct and constant.

134. *Mesosemia ibycus parishii* Druce.

Mesosemia ibycus parishii Druce, 1904, *Proc. zool. Soc. Lond.* 1904 : 485.

The form in Trinidad corresponds with that named *parishii* Druce. It is improbable that the two forms are independent species. They are probably both subspecies of one species.

The subspecies was described from a British Guiana specimen.

² A supplementary species, just described, is *Euptychia newtoni* Hall, 1940, *Ent. Bull. Dept. Agric. Trinidad* 3 : 72.

152a. *Lasaia oileus* Godman.*Lasaia oileus* Godm., 1903, *Trans. ent. Soc. Lond.* **1903** : 541, pl. 22, ff. 10, 11.*Lasaia oileus* Mengel, 1905, *Cat. Eryc.* : 109.*Lasaia oileus* Seitz, 1917, *Macrolep. World* **5** : 693, pl. 135h.

Range : Tropical South America.

St. Ann's Valley (*G. E. Tryhane*).

A rare species and probably overlooked. Included in 1913 list but accidentally omitted from 1921 list.

159. *Mesene simpla* Kaye.This is the ♀ of *Mesene sagaris*. The figured male (1913, *Trans. ent. Soc. Lond.* **1913** : pl. xxx, fig. 10) is in reality a ♀ while the fig. 9 is most likely an aberrant ♀ of the same species.Stichel in 1924, *Deuts. ent. Z.* **1924** : 412 refers my species to *Phaenochitonina bocchoris* but this is not correct.*Mesene simpla* becomes a pure synonym of *Mesene sagaris*.137a. *Cremna thasus* (Cramer).*Papilio thasus* Cram., 1782, *Pap. Exot.* **4** : t. 331, 1.*Cremna thasus* Seitz, 1917, *Macrolep. World* **5** : 650, pl. 126g.

Range : Surinam, Colombia.

St. Ann's Valley, 2 ♂♂, 1 ♀ (*Dick*).A pretty species with many slender transverse lines and only recently discovered in Trinidad by Mr. R. Dick. It is mentioned in Seitz (*loc. cit.*) as coming from Trinidad as well as other countries. It is doubtless a myrmecophilous species, being found in Trinidad always close to ants nests.140. *Zeonia faunus faunus* ab. *lamonti* Kaye.*Zeonia faunus faunus* ab. *lamonti* Kaye, 1924, *Trans. ent. Soc. Lond.* **1924** : 415.

A fine aberration without any red on the lobe at anal angle.

141. *Melanis agyrtus praxinus* Stichel.The last four lines under the next following species in catalogue : 65 viz. *Parcella amarynthina amarynthina*, really belong to *Melanis agyrtus* and it was due to an error that they were misplaced.144a. *Syrmatia aethiops* Staudinger.*Syrmatia aethiops* Stgr., 1888, *Exot. TagSchmett.* **1** : 250.*Syrmatia aethiops* Seitz, 1917, *Macrolep. World* **5** : 664, pl. 132b.

Range : West Colombia.

Rio Claro, xi.1923 (*E. E. Fabien*) (*F. W. Jackson*).Most probably this is an aberrational form of *S. dorilas*. Staudinger suggested this at the time of describing it. The range of the species also looks unlikely for a genuine species.144b. *Mesene rubella* Bates.*Mesene rubella* Bates, 1865, *Ent. mon. Mag.* **1** : 204, n. 80.*Mesene phareus rubella* Seitz, 1917, *Macrolep. World* **5** : 675.

Range : Colombia, Venezuela, Brazil (Matto Grosso).

♂♀ without discoidal black spot or ♂, occasionally with only a trace. The colour of both sexes a brighter red and a different shade to *M. phareus*, Mauteruis, 11.i.26 (*W. J. Kaye*), Fondes Amandes, 22.iv.1922 (*F. W. Jackson*).

161a. *Symmachia progne* Godman.

Symmachia progne Godm., 1903, *Trans. ent. Soc. Lond.* **1903** : 537, pl. xxi, f. 10.
Emesis progne Seitz, 1917, *Macrolep. World* **5** : 696, pl. 137a.

Range : Peru, Bolivia.

A male of this species was taken in St. Ann's Valley and is now in the British Museum. The female has the transverse bands on the underside more heavily spotted. Morne Diable, 20.v.1916 (*Lamont*).

Included in the 1913 list but accidentally omitted in 1921.

162a. *Symmachia probetor probetor* (Cramer).

Papilio probetor Cram., 1782, *Pap. Exot.* **4** : t. 390, 1.
Symmachia probetor Kaye, 1913, *Trans. ent. Soc. Lond.* **1913** : 560.
Symmachia probetor Seitz, 1917, *Macrolep. World* **5** : 682, pl. 128g.

Range of species : Colombia, Guiana, Brazil, Amazon.

Range of subspecies : Venezuela, Colombia.

1 Hololo (*R. Dick*), 1920 ; 1 Hololo, 300 ft. (*F. W. Jackson*), ii.1922 ; Morne Diable, ii.1921 (*E. E. Fabien*).

A small species with a crimson band along costa of hind-wing. The ♀ has transverse bands on underside more heavily spotted.

161b. *Symmachia urichi* Kaye.

Symmachia urichi Kaye, 1924, *Trans. ent. Soc. Lond.* **1924** : 415.

Original specimen was found at Filette, North Coast.

Taken at Rio Claro on 12.xii.1924 (*Percy Rodriguez*).

A second specimen also a ♀ (*R. Dick*) 1924 at the same place.

A fine discovery and somewhat remarkably recorded from both north and south coasts.

176a. *Tharops superba* Bates.

Tharops superba Bates, 1868, *J. Linn. Soc. Lond.* **9** : 397.
Tharops superba Seitz, 1917, *Macrolep. World* **5** : 717, pl. 143c.

Range : Brazil, Amazon.

Always a very rare species and only recently detected in Trinidad by Mr. E. E. Fabien at Rio Claro. Also taken later at same place by Mr. R. Dick.

180a. *Metacharis erythromelas* (Sepp).

Papilio erythromelas Sepp, 1848, *Surin. Vlind.* **1** : 65.
Metacharis erythromelas Seitz, 1917, *Macrolep. World* **5** : 703, pl. 137d.

Range : Guiana.

Mr. A. Hall took a male in St. Ann's district and a female on another occasion in the same district between Dec. 1938 and Jan. 1939. Mr. T. Birch took a female in the same district on 26.ix.1904 which had been paired with *Lemonias rhodope* ♂.

181a. *Lemonias zeanger* Stoll.

Lemonias zeanger Stoll, Cram., 1791, *Pap. Exot. Suppl.* : 165.
Lemonias zeanger Seitz, 1917, *Macrolep. World* **5** : 704, pl. 137g.
Lemonias rhesa Hew., 1858, *Exot. Butt.* **2** : t. 17, ff. 15, 16.

Range : Guiana.

Several taken near Port of Spain.

184. *Polystichtis maeon* Godman.

This butterfly was included by an error of determination and must be deleted from the list.

185. *Alesa prema* ab. *nigra* Kaye.

Alesa prema ab. *nigra* Kaye, 1924, *Trans. ent. Soc. Lond.* **1924** : 415.

A remarkable black aberration is described by me in 1924, *Trans. ent. Soc. Lond.* **1924** : 415, as ab. *nigra*. This striking specimen was caught by Mr. R. Dick.

185a. *Alesa amesis* Cramer.

Alesa amesis Cram., 1779, *Pap. Exot.* **11** : t. 104 F.

Alesa amesis Seitz, 1917, *Macrolep. World* **5** : 652, pl. 127b.

Alesa amesis Mengel, 1905, *Cat. Erycin.* : 55.

Range : Guiana, Amazon.

Mitan, 9.ii.1922 (*Sir N. Lamont*). Port of Spain (*A. Hall*), 1934. Several males.

Drepanula sp.

I have seen a *Drepanula* that was taken in the island but have no means of identifying the species.

188a. *Theope excelsa* Bates.

Theope excelsa Bates, 1868, *J. Linn. Soc. Lond.* **9** : 406.

Theope excelsa Seitz, 1917, *Macrolep. World* **5** : 723, pl. 143f.

Range : Brazil, Amazons, Guiana.

First taken by Mr. R. Dick at Rio Claro 19.xii.24. The largest species of the genus *Theope*, and like *T. barea* with a golden underside.

196a. *Theope virgilius* Fabricius.

Theope virgilius Fab., 1793, *Ent. Syst.* **3** (1) : 323, n. 226.

Theope virgilius Godm. & Salv., 1887, *Biol. Cent. Amer. Rhop.* **1** : 484, pl. xlvii, ff. 7, 8.

Theope virgilius Seitz, 1917, *Macrolep. World* **5** : 724.

Range : Central America, Colombia, Ecuador, Venezuela.

St. Ann's (*R. Dick*).

A species similar to *syngenes* but without median band beneath.

199a. *Nymphidium strati* Kaye.

Nymphidium strati Kaye, 1924, *Trans. ent. Soc. Lond.* **1924** : 414.

St. Ann's, 1300 ft., 15.iv.1922 (*F. W. Jackson*), also taken by Mr. R. Dick, at the same place.

I have named this little species after the Silla Range (in Latin stratum = saddle).

200a. *Nymphidium molpe* (Hübner).

Limnas subtilis molpe Hübn., 1806-1810, *Samml. ex. Schmett.*

Nymphidium molpe Seitz, 1917, *Macrolep. World* **5** : 712, pl. 139b, c.

Nymphidium molpe Godm. & Salv., 1887, *Biol. Cent. Amer. Rhop.* **1** : 473.

Range : Mexico to the Amazon Valley.

A rather common species. Morne Diabla, 7.iii.1915; La Brea, 26.iii.1922; Guayaguayare, 29.iii.1922 (*Sir N. Lamont*).

Larva on *Cassia*. Head small and hairy. Abdomen flat slug-shaped. Very similar in shape and habits to larvae of *Theope eudocia* Hew., and *T. foliorum* Bates.

A pair of horn-like protuberances take the place of the club-like ones in the foregoing. Before pupating the body turns brownish. The anal segment is similar to the *Theope* larvae, and there are large ants that attend and milk the larvae. These ants are solitary, are armed with a powerful pair of jaws, and

when I attempted to remove them from the back of the larvae, they snapped violently at the piece of wood I was holding. A pair of larvae are generally found on each plant, and are to be obtained mainly on the low-growing *Cassia* plants, chiefly through the dry season, though some are to be found at all times.

Pupa. Very much like a piece of wood (J. Guppy).

200b. *Nymphidium azanoides* Butler.

Nymphidium azanoides Butl., 1867, *Ent. mon. Mag.* **3** : 221.

Nymphidium azanoides Seitz, 1917, *Macrolep. World* **5** : 712, pl. 139c.

Nymphidium molpe Godm. & Salv., 1887, *Biol. Cent. Amer. Rhop.* **1** : 473.

Nymphidium azan Kaye (nec Dbl.), 1904, *Trans. ent. Soc. Lond.* **1904** : 88.

Nymphidium fulminans Bates, 1863, *J. Linn. Soc. Lond.* **9** : 400

Range : Costa Rica to Bolivia.

Seitz says not rare, but in Trinidad it is decidedly rare. Tabaquite, x-xii.1920 (A. Hall); Maupertuis Road, 15.iv.1922 (F. W. Jackson).

200c. *Nymphidium baetia* Hewitson.

Nymphidium baetia Hew., 1856, *Exot. Butt.* **1** : Nymph. t. 1, f. 5.

Nymphidium baetia Seitz, 1917, *Macrolep. World* **5** : 713, pl. 140d.

Range : Guiana, Amazon.

Siparia, 15.i.1921 (W. J. K.); Morne Diable, 6.iv.1921 (Sir N. Lamont); Cumuto, 14.iii.1922 (F. W. Jackson).

Not rare.

200d. *Nymphidium olinda* Bates.

Nymphidium olinda Bates, 1865, *Ent. mon. Mag.* **1** : 204, n. 83.

Nymphidium olinda Godm. & Salv., 1887, *Biol. Cent. Amer. Rhop.* **1** : 474.

Range : Colombia to Panama.

Siparia, 15.i.1921 (W. J. K.); Cumuto, 14.iii.1922 (F. W. Jackson); St. Ann's (R. Dick).

Somewhat resembles *N. baetia* but is a rather larger and heavier insect and the marginal spots are more even.

200e. *Nymphidium pelops* Fabricius.

Nymphidium pelops Fabr., 1787, *Mant. Ins.* **2** : 78.

Nymphidium pelops Seitz, 1917, *Macrolep. World* **5** : 712, pl. 139g.

Range : Venezuela, Colombia, Brazil.

A very distinct species of *Nymphidium* discovered at Manzanilla in the swamps, 23.iii.1922 (F. W. Jackson).

202a. *Nymphidium lisimon lisimon* (Stoll).

Papilio lisimon Stoll, 1791, *Pap. Exot. Suppl.* : 169, C. 39, f. i. 1a.

Erycina lisimon Godt., 1824, *Enc. Meth. (Zool.)*, **9** : 575.

Range of species : Guiana to Peru, Ecuador.

Range of subspecies : Guiana, Lower Amazon.

Siparia, 19.xi.1920, 15.i.1921 (W. J. K.); Tabaquite, 3.iv.1922 (Dr. F. W. Jackson); Guapo, 25.v.1910, in Coll. Dept. Agric. Trinidad and Tobago.

N. lisimon and *N. omois* occur together on the same ground at Siparia in January but are apparently distinct species.

LYCAENIDAE.

207c. *Iaspis talayra* (Hewitson).

Thecla talayra Hew., 1868, *Desc. Lyc.* : 1, No. 3.

Iaspis talayra Kaye, 1903, *Trans. ent. Soc. Lond.* 1903 : 196.

Range : Mexico to South Brazil.

Not rare in Trinidad : Port of Spain (W. J. K.), 21.xi.1920; Maupertuis, 6.iv.1922 (F. W. Jackson); Toco, 22.i.1928 (Sir N. Lamont).

210a. *Callicista faunalia* (Hewitson).

Thecla faunalia Hew., 1868, *Desc. Lyc.* : 31 n. 66.

Thecla faunalia Draudt, in Seitz, 1920, *Macrolep. World* 5 : 808, pl. 159l.

Range : Amazon.

Las Lapas, 1500 ft., 27.i.1928 (Sir N. Lamont).

An interesting and very distinct little species which has not hitherto been recorded.

217a. *Tmolus cupentus* (Cramer).

Papilio cupentus Cram., 1782, *Pap. Exot.* 4 : t. 337, ff. F, G.

Thecla cupentus Hew., 1867, *Ill. diurn. Lep.* : 98, n. 108.

Range : Guianas, Amazon.

St. Ann's (R. Dick).

Another interesting discovery made by Mr. R. Dick.

217b. *Tmolus comana* (Hewitson).

Thecla comana Hew., 1867, *Ill. diurn. Lep.* : 97, n. 107, t. 36, ff. 86, 87.

Thecla comana Draudt, in Seitz, 1920, *Macrolep. World* 5 : 769, t. 154c.

Range : Brazil, Amazon.

A single male from Maupertuis (R. Dick) 1920. A rare species.

226. *Calycopis amphrade* (Schaus).

Tmolus amphrade Schs., 1913, *Proc. zool. Soc. Lond.* 1913 : 355.

This species was included by an error of determination and must be deleted.

227a. *Calycopis socia* (Hewitson).

Thecla socia Hew., 1868, *Desc. Lyc.* : 29 (1) 62.

Thecla socia Draudt in Seitz, 1920, *Macrolep. World* 5 : 804, pl. 159c.

Range : Brazil.

1 in coll. Admiral Bourke now in the Hope Dept., University Museum, Oxford.

Above exceedingly like *Calycopis cleon* (also a Trinidad species) but with a different underside.

232a. *Calycopis denarius* (Butler & Druce).

Tmolus denarius Butl. & Druce, 1872, *Cist. Ent.* 1 : 109.

Tmolus denarius Butl., 1873, *Lep. Exot.* : 162, t. 57, f. 3.

Thecla denarius Godm. & Salv., 1887, *Biol. Cent. Amer. Rhop.* 2 : 77.

Range : Costa Rica.

St. Ann's (R. Dick).

232b. *Calycopis odinus* (Godman & Salvin).

Thecla odinus Godm. & Salv., 1887, *Biol. Cent. Amer. Lep.* 2 : 69.

Range : Panama, Colombia.

St. Ann's, 1300 ft. (R. Dick).

235a. *Calycopis spurina* (Hewitson).

Thecla spurina, 1867, *Ill. diurn. Lep.* : 102, n. 127, t. 39, ff. 122, 123.

Tmolus stagira Hew., 1867, *Ill. diurn. Lep.* : 161, t. 39, ff. 120, 121; t. 43, f. 167.

Thecla spurina Draudt in Seitz, 1920, *Macrolep. World* 5 : 777, pl. 152h, i.

Thecla stagira Godm. & Salv., 1887, *Biol. Cent. Amer. Rhop.* 2 : 52.

Range : Panama to Amazon.

Recorded by Crowfoot, Palmiste, 14.ix.1917; (Sir N. Lamont), St. Ann's (R. Dick).

Rather rare. Included in the 1904 list but accidentally omitted in 1921.

235b. *Calycopis pion* (Godman & Salvin).

Thecla pion Godm. & Salv., 1887, *Biol. Centr. Amer. Rhop.* 2 : 54.

Thecla pion Draudt in Seitz, 1920, *Macrolep. World* 5 : 780, pl. 155g.

Range : from Mexico to Panama.

Morne Diable, 26.i.1922 (Sir N. Lamont).

235c. *Thecla caesaries* H. H. Druce.

Thecla caesaries H. H. Druce, 1907, *Proc. zool. Soc. Lond.* 1907 : 617, pl. 36, f. 19.

Thecla caesaries Draudt in Seitz, 1920, *Macrolep. World* 5 : 802.

Range : Brit. Guiana.

St. Ann's, 19.x.1924 (R. Dick).

236a. *Siderus camissa* (Hewitson).

Thecla camissa Hew., 1877, *Ill. diurn. Lep.* : 189, t. 75, ff. 595, 596.

Thecla camissa Godm. & Salv., 1887, *Biol. Cent. Amer. Rhop.* 2 : 78.

Thecla camissa Draudt in Seitz, 1920, *Macrolep. World* 5 : 794, pl. 157k.

Range : Guatemala to Peru.

Siparia, 20.xi.1920 (W. J. Kaye); St. Ann's, 1300 ft. (R. Dick).

236b. *Siderus elana* (Hewitson).

Thecla elana Hew., 1874, *Ill. diurn. Lep.* : 170, t. 67, ff. 482, 483.

Thecla elana Draudt in Seitz, 1920, *Macrolep. World* 5 : 782, pl. 152g.

Range : N. Brazil.

St. Ann's (R. Dick).

239a. *Siderus ocrida* (Hewitson).

Thecla ocrida Hew., 1868, *Desc. Lyc.* : 5, n. 11; 1869, *Ill. diurn. Lep.* : 124, n. 193, t. 48, ff. 233, 234.

Thecla ocrida Draudt in Seitz, 1920, *Macrolep. World* 5 : 175, pl. 152a.

Range : Amazons.

Hololo Road (R. Dick), rare.

240a. *Siderus gargophia* (Hewitson).

Thecla gargophia Hew., 1877, *Ill. diurn. Lep.* : 190, n. 371, t. 75, ff. 597, 598.

Thecla gargophia Draudt in Seitz, 1920, *Macrolep. World* 5 : 778, t. 152.

Range : Amazons, S. Brazil, Espirito Santo.

St. Ann's Valley, at 400 ft., i.1922 (F. W. Jackson).

242a. *Bithys syedra* (Hewitson).

Thecla syedra Hew., 1877, *Ill. diurn. Lep.* : 108.

Thecla syedra Draudt in Seitz, 1920, *Macrolep. World* 5 : 781, pl. 151c.

Thecla syedra Godm. & Salv., 1887, *Biol. Cent. Amer. Rhop.* 2 : 57, pl. lv, ff. 7, 8.

Range : Guatemala to Amazon.

Siparia, 18.xi.1920 (W. J. Kaye); Hololo (W. J. K.); Guaico, 29.i.1922 (F. W. Jackson).

242b. *Bithys xeneta* (Hewitson).

Thecla xeneta Hew., 1877, *Ill. diurn. Lep.* t. 77, ff. 611, 612.

Thecla xeneta Draudt in Seitz, 1920, *Macrolep. World* 5 : 794, pl. 157k.

Thecla xeneta Godm. & Salv., 1887, *Biol. Cent. Amer. Rhop.* 2 : 73.

Range : Guatemala to S. Brazil.

St. Ann's (*R. Dick*).

243a. *Oenamaus rustan* (Cramer).

Thecla rustan Cram., 1790, *Pap. Exot. Suppl.* : 166, t. 38, ff. 1, 1a.

Thecla rustan Draudt in Seitz, 1920, *Macrolep. World* 5 : 768, pl. 152a.

Thecla rustan Godm. & Salv., 1887, *Biol. Cent. Amer. Rhop.* 2 : 50.

Range : British Honduras, Panama to Brazil.

Moruga (*R. M. Farmborough*); Manzanilla, i.1928 (*W. J. K.*).

A large handsome species with an unusual brownish underside. Usually rather rare.

245a. *Atlides caranus* (Cramer).

Thecla caranus Cr., 1782, *Pap. Exot.* 4 : t. 332c, d.

Thecla caranus Draudt in Seitz, 1920, *Macrolep. World* 5 : 751, pl. 148g.

Thecla caranus Godm. & Salv., 1887, *Biol. Cent. Amer. Rhop.* 2 : 24, pl. L, ff. 13-15.

Range : Panama, Colombia, Guiana, The Amazon.

A species with a striking underside, blue spotted at base.

245b. *Atlides neora* (Hewitson).

Thecla neora Hew., 1862, *Ill. diurn. Lep.* : 90.

Thecla neora Draudt in Seitz, 1920, *Macrolep. World* 5 : 751.

Thecla neora Godm. & Salv., 1887, *Biol. Cent. Amer. Rhop.* 2 : 24, pl. L, ff. 16-18.

Range : Panama to Colombia, Amazons.

Morne Diable, ii.1922 (*E. E. Fabien*).

A species very similar to the last but smaller. Geographically the two cover the same countries.

245c. *Atlides didymaeon* (Cramer).

Papilio didymaeon Cram., 1779, *Pap. Exot.* 2 : t. 134, f. A.

Thecla didymaeon Draudt in Seitz, 1920, *Macrolep. World* 5 : 751.

Range : Guiana, Amazon.

St. Ann's, 1300 ft. (*R. Dick*).

246a. *Rekoa palegon* (Cramer).

Papilio palegon Cram., 1782, *Pap. Exot.* 3 : t. 282, C, D.

Thecla palegon Draudt in Seitz, 1920, *Macrolep. World* 5 : 761, pl. 150d, e.

Range : Venezuela, Brazil, Mexico.

A single specimen in v.1898, at Tabaquite (*W. J. Kaye*); also recorded by Crowfoot, Morne Diable, 29.v.1916; Siparia, 1.vii.1917; La Ceiba, 19.i.1918; Verdant Vale, 13.i.1922 (*Sir N. Lamont*).

Included in the 1904 list but accidentally omitted in 1921.

246b. *Rekoa dolyas* (Cramer).

Papilio dolyas Cram., 1779, *Pap. Exot.* 2 : t. 111, B, C.

Thecla dolyas Draudt in Seitz, 1919, *Macrolep. World* 5 : 761.

Range : Venezuela, Guiana, Amazons, Colombia, Bolivia.

Manzanilla, 19.xi.1922 (*F. W. Jackson*).

A very widely distributed species but only recently detected in Trinidad by Dr. F. W. Jackson.

Arima, i-iii.1932 (*A. Hall*).

247a. *Mithras lisus* (Stoll).

Papilio lisus Stoll in Cram., 1790, *Pap. Exot. Suppl.*, t. 38, ff. 2, 2b.

Thecla lisus Draudt in Seitz, 1920, *Macrolep. World* 5 : 749, T. 148a.

Thecla hisbon Godm. & Salv., 1887, *Biol. Cent. Amer.* 2 : 17, pl. 49, ff. 4, 5, 6 & 147 f.

Range : The Guianas, Panama.

Siparia, 7.iv.1922, St. Ann's, 22.iii.1922 (*F. W. Jackson*).

Probably confused in the wing with *Mithras hemon*.

247c. *Thecla zebina* Hewitson.

Thecla zebina Hew., 1869, *Ill. diurn. Lep.* : 120.

Thecla zebina Draudt in Seitz, 1920, *Macrolep. World* 5 : 769, T. 152 f.

Range : Mexico to Nicaragua.

1 St. Joseph, 5.iv.1922 at 1700 ft. alt.; 1 Balata Hill, 28.iii.1922 (*F. W. Jackson*).

A fine discovery of Dr. F. W. Jackson.

247d. *Thecla crepundia* Druce.

Thecla crepundia Druce, 1909, *Trans. ent. Soc. Lond.* 1909 : 432.

Thecla crepundia Draudt in Seitz, 1920, *Macrolep. World* 5 : 784.

Range : Peru.

The species is apparently very rare and its distribution is hardly known.

Port of Spain, bred from mango, 25.i.1925 (*F. W. Urich*).

247e. *Thecla bourkei* Kaye.

Thecla bourkei Kaye, is a Jamaican species and not Trinidadian.

PAPILIONIDAE.

PIERINAE.

286a.³ *Pieris sevata janeta* Dixey.

Pieris janeta Dixey, 1915, *Trans. ent. Soc. Lond.* 1915 : 10, 11.

Pieris sp. Longstaff, 1912, *Butt. Hunting many lands* : pl. iii, figs. 1, 2.

Tetron Bay, 30.xii.1904 (*T. Birch*). This specimen was among *Birch's* unset butterflies that I purchased at his death. It is interesting because the type from Venezuela came from 1300 ft. elevation. Longstaff took his specimens on the way up to Caracas, Venezuela, in March 1907.

PAPILIONINAE.

290b. *Papilio belus varus* Kollar.

Papilio varus Koll., 1850, *Denkschr. Akad. Wiss. (Math.-Nat.)* 1 : 354, n. 8, t. 42, ff. 3, 4, ♀.

Papilio belus varus Roths. & Jord., 1906, *Nov. Zool.* 13 : 529.

Papilio belus varus Jord. in Seitz, 1907, *Macrolep. World* 5 : 21.

Range of species : Mexico to Bolivia, Amazons but not Brazil proper.

Range of subspecies : Guatemala to N.E. Ecuador, N. Venezuela.

Granville, 12.xii.1924 (*P. Rodriguez*).

Rare but truly resident.

292a. *Papilio lycophron* (Hübner).

Heracles lycophron Hübner, 1816-1836, *Samml. exot. Schmett.* 2.

Papilio lycophron Jordan in Seitz, 1907, *Macrolep. World* 5 : 25, pl. 8d.

Range : Brazil, Paraguay, Argentina.

Moruga, vi.1921 (*G. Thompson*); Port of Spain, bred R. Dick, ♂ & ♀.

³ *Gonepteryx chlorinde* Godart, 1823, *Encycl. méth.* 9 (Suppl.) : 813. Added by Mr. A. Hall.

296. *Papilio pausanias tabaquita* Kaye.*Papilio pausanias tabaquita* Kaye, 1924, *Trans. ent. Soc. Lond.* 1924 : 414.*Papilio pausanias* Kaye, 1921, *Mem. Dept. Agric. Trinidad* 2 : 118.

Range of species : Costa Rica to Amazon.

Range of subspecies : Trinidad.

Tabaquite (*W. J. C. Cook*); Santa Cruz, 1, 1924; several in Moruga district 1933 (*Critchley*).

HESPERIIDAE.

HESPERIINAE.

303. *Myscelus hages* Godman & Salvin.*Myscelus hages* Godm. & Salv., 1894, *Biol. Cent. Amer. Rhop.* 2 : 266.♀ *Myscelus rogersi* Kaye, 1913, *Trans. ent. Soc. Lond.* 1913 : 582.♀ *Myscelus rogersi* Kaye, 1921, *Mem. Dept. Agric. Trinidad* 2 : 120.It is highly probable that *Myscelus rogersi* is the ♀ of *M. hages*. They are always found together and all the former are females and all the latter males.303a. *Acolastus amyntas* (Fabricius).*Papilio amyntas* Fab., 1775, *Syst. Ent.* : 533, n. 304.*Acolastus amyntas* Draudt in Seitz, 1917, *Macrolep. World* 5 : 862.

Range : West Indies, Venezuela, Brazil.

Apparently rare in Trinidad.

Mysoria barcastus cayennae Mabilie & Boullet.*Mysoria barcastus cayennae* Mab. & Boull., 1908, *Ann. Sci. nat.* (6) 7 : 185.*Mysoria barcastus cayennae* Draudt in Seitz, 1921, *Macrolep. World* 5 : 841.

Range : Guiana.

Santa Cruz Valley, 1-9.iv.1929 (*Huntingdon*); Trinidad 10, 12, 20.iv.1927 (*Fulda*).It is very doubtful if this insect is distinct from *M. venezuelae*. The characters are not constant.301a. *Yanguna rufescens* Riley.*Yanguna rufescens* Riley, 1919, *Entomologist* 52 : 200.

Range : Brazil, Upper Madeira.

The author of *rufescens* thinks it may perhaps be only a race of *Y. aspiha* Hew.Morne Diable, i.1922 (*E. E. Fabien*).302a. *Phocides pigmalion* (Cramer).*Papilio pigmalion* Cram., 1782, *Pap. Exot.* 3 : t. 245A, 13.*Phocides pigmalion* Draudt in Seitz, 1921, *Macrolep. World* 5 : 850.*Phocides valgus* Mab., 1883, *C.R. Soc. ent. Belg.* 1883 : 52.

Range : Venezuela, Colombia.

A rare species in Trinidad. One in Coll. Bourke now in Oxford Museum, 1 St. Ann's (*R. Dick*) and another in Coll. Imperial Institute of Entomology. One specimen (the latter) has very large transparent patches in fore-wing, the former has a smaller and squarer patch. The species varies greatly and apparently the variations are not geographical. Trinidad specimens are somewhat intermediate between *valgus* and *pigmalion*.Maraval, xi.1931-iii.1932 (*A. Hall*).

Polythrix metallescens Mabilie.

Polythrix metallescens Mab., 1888, *Le Naturaliste* 10 : 108.

Range : Brazil (Amazon), Panama.

Santa Cruz Valley, 29.iii.1929 (*Huntingdon*).

A rare species.

302b. *Eudamus auginus* Herrich-Schäffer.

Eudamus auginus H.-S., 1869, *Prod. Syst. Lep.* 3 : 62.

Eudamus auginus Draudt in Seitz, 1921, *Macrolep. World* 5 : 857, pl. 161d.

Range : Colombia, Guiana, Brazil.

Tabaquite, 2.iv.1922 (*F. W. Jackson*); Cascade Valley, iv.1922 (*F. W. Jackson*); St. Ann's Valley, i-iii.1932 (*A. Hall*).

307a. *Eudamus eurycles* Latreille.

Eudamus eurycles Latr., 1823, *Enc. méth.* 9 : 730, n. 5.

Eudamus eurycles Draudt in Seitz, 1921, *Macrolep. World* 5 : 855, pl. 160c.

Range : Mexico, Honduras, Venezuela, Brazil.

A very common butterfly.

Included in the 1904 list; but in the 1921 list it is wrongly given as a synonym of *E. dorantes* Stoll, a totally distinct insect. It was *E. amisus* Hew. which should have stood as a synonym.

Eudamus carmelita nigricauda Godman & Salvin.

Eudamus carmelita nigricauda Godm. & Salv., 1894, *Biol. Cent. Amer. Rhop.* 2 : 274.

Eudamus carmelita nigricauda Draudt in Seitz, 1921, *Macrolep. World* 5 : 855.

Range : Brazil.

21.iii.1927; 9.iv.1927 (*Fulda*).

327a. *Thymeles egregius* (Butler).

Telegonus egregius Butl., 1870, *Trans. ent. Soc. Lond.* 1870 : 494.

Thymeles egregius Draudt in Seitz, 1921, *Macrolep. World* 5 : 866, pl. 168b.

Range : Mexico to Panama, Colombia.

Siparia, 20.xi.1920 (*W. J. K.*); Quinam, 16.i.1936 (*Sir N. Lamont*).

A species liable to be mistaken in the field for *T. fulgurator* but from which it can be recognised by the reduction of the transparent band to two small dots.

327b. *Thymeles briccius* Plötz.

Thymeles briccius Plötz, 1881, *Stettin. ent. Ztg* 1881 : 504.

Thymeles briccius Draudt in Seitz, 1922, *Macrolep. World* 5 : 866, pl. 168c.

Range : Brazil.

Northern hills, 11-30.iii.1934 (*A. Hall*).

Might easily be mistaken for *Th. fulgurator* in the field.

328a. *Tisias fulguratoides* Kaye.

Tisias fulguratoides Kaye, 1924, *Trans. ent. Soc. Lond.* 1924 : 417.

Range : Trinidad.

St. Ann's, 1300 ft., 15.iv.1922 (*F. W. Jackson*).

Acropterus bocus Plötz.

Acropterus bocus Plötz, 1882, *Berlin. ent. Z.* 1882 : 262.

Acropterus bocus Draudt in Seitz, 1922, *Macrolep. World* 5 : 870.

Range : Guiana, Colombia, Brazil.

11.iv.1927 (*Fulda*).

328c. *Nascus euribates* (Cramer).*Hesperia euribates* Cram., 1782, *Pap. Exot.* 4 : t. 393.*Hesperia euribates* Draudt in Seitz, 1922, *Macrolep. World* 5 : 873, pl. 170a.

Range : Guiana to Brazil.

307b. *Chrysoplectrum perniciosum* (Herrich-Schäffer).*Eudamus perniciosum* H.-S., 1869, *Prod. Syst. Lep.* 3 : 65, n. 13.*Eudamus perniciosum* Draudt in Seitz, 1922, *Macrolep. World* 5 : 862.

Range : Colombia to Brazil.

Arima, i-iii.1932 (*A. Hall*).

A species strongly reminiscent of *Eudamus asine* but without the three white apical dots, also different below with a metallic greenish sheen.

330. *Nascus caepio* Herrich-Schäffer.*Nascus caepio* H.-S., 1869, *Prod. Syst. Lep.* 3 : 68.*Nascus caepio* Draudt in Seitz, 1922, *Macrolep. World* 5 : 874.

Range : Honduras to Colombia and Venezuela.

Maraval Valley, xi.1931-ii.1932 (*A. Hall*).

Apparently rare like several other species of the genus.

Is recorded by me in 1921, *Mem. Dept. Agric. Trinidad* 2 as *Nascus calpio*.338a. *Caecina calanus* Godman & Salvin.*Caecina calanus* Godm. & Salv., 1894, *Biol. Cent. Amer. Rhop.* 2 : 343, pl. 81, f. 10.*Caecina calanus* Draudt in Seitz, 1922, *Macrolep. World* 5 : 879, pl. 173a.*Caecina calanus* Kaye, 1904, *Trans. ent. Soc. Lond.* 1904 : 212.

Range : Mexico to Panama and doubtless Venezuela.

St. Ann's (*F. W. Urich*).

Included in the 1904 list and accidentally omitted from the 1921 list.

338b. *Paradros alcmon* (Cramer).*Papilio alcmon* Cram., 1782, *Pap. Exot.* 3 : t. 261 D, E.*Paradros alcmon* Draudt in Seitz, 1922, *Macrolep. World* 5 : 881, pl. 171d.

Range : Guiana to Brazil.

Port of Spain, ii.1930 (*A. Hall*). Apparently a rare species ; it is remarkable for so conspicuous an insect to remain undetected so long.

340a. *Timochares trifasciata* (Hewitson).*Leucochitonina trifasciata* Hew., 1868, *Descr. Hesp.* : 50, n. 11.*Timochares trifasciata* Draudt in Seitz, 1922, *Macrolep. World* 5 : 907, pl. 177a.

Range : Mexico to Venezuela.

St. Joseph, xii.1921 (*F. W. Jackson*).Port of Spain, 10.vii.1927 (*Forbes*).

A large conspicuous species rather remarkably overlooked hitherto.

341a. *Phanus marshalli* Kirby.*Phanus marshalli* Kirby, 1880, *Sci. Proc. R. Dublin Soc.* 21 : 339.*Phanus vitreus* Draudt in Seitz, 1922, *Macrolep. World* 5 : 883 part.

Range : Mexico to S. Brazil.

St. George's, xi.1891 (*C. W. Ellacombe*); Maraval, ix.1891, St. Clair, 15.xi.1920 (*W. J. Kaye*).

Owing to the confusion of the three species of *Phanus* it is impossible to say where the three occur in Trinidad. Apparently the present species is the commonest of the three. This species may be recognised by the transparent cell of hind-wing being divided with black.

341b. *Phanus obscurior* Kaye.

Phanus obscurior Kaye, 1924, *Trans. ent. Soc. Lond.* **1924** : 416.

Range : Nicaragua to S. Brazil.

A much darker species especially in the ♂. Both sexes may be also recognised by the broad dark basal area of fore-wing of $\frac{1}{4}$ inch (6 mm.) or over. Palmiste, 3.ix.1916 (*Sir N. Lamont*); Arima, 25.x.1920 (*W. J. Kaye*); Maraval (*C. W. Ellacombe*).

341c. *Udranomia orcinus* (Felder).

Eudamus orcinus Feld., 1867, *Reise Novara Lep.* **3** : 510, n. 887, t. 71, ff. 4, 5.

Udranomia orcinus Butl., 1870, *Ent. mon. Mag.* **7** : 58.

Hydraenomia orcinus Draudt in Seitz, 1922, *Macrolep. World* **5** : 881, t. 171c.

Range : Brazil, Bahia.

1 ♂ Manzanilla, 22.iii.1922 (*Dr. F. W. Jackson*). The first record of this neat skipper.

355a. *Anastrus retius* (Moeschler).

Pellicia petius Moesch., 1886, *Verh. zool.-bot. Ges. Wien.* **1876** : 339, t. 4, f. 26.

Anastrus petius Draudt in Seitz, 1922, *Macrolep. World* **5** : 895, pl. 174i.

Range : British and Dutch Guiana.

Fort George, i.1922, 1200 ft. (*F. W. Jackson*).

355b. *Pellicia dimidiata* Herrich-Schäffer.

Pellicia dimidiata H.-S., 1870, *CorrespBl. zool. min. Ver. Regensburg* **1870** : 159.

Pellicia dimidiata Draudt in Seitz, 1922, *Macrolep. World* **5** : 891.

Range : Mexico to Guiana.

St. Ann's, 21-31.iii.1929, Santa Cruz Valley, 21-31.iii.1929 (*Huntingdon*).

355c. *Pellicia costimacula* Herrich-Schäffer.

Pellicia costimacula H.-S., 1870, *CorrespBl. zool. min. Ver. Regensburg* **1870** : 159.

Pellicia costimacula Draudt in Seitz, 1922, *Macrolep. World* **5** : 891, pl. 174c.

Range : Mexico to Peru and Brazil.

Palmiste, 19.xi. (*Sir N. Lamont*).

355d. *Pellicia macareus* Herrich-Schäffer.

Pellicia macareus H.-S., 1870, *CorrespBl. zool. min. Ver. Regensburg* **1870** : 160.

Pellicia macareus Draudt in Seitz, 1922, *Macrolep. World* **5** : 891, 174b, e.

Range : Central America to Amazon.

Recorded by Fulda, 20.iii.1927.

This may not be distinct from *ephora*.

355e. *Pellicia ephora* Herrich-Schäffer.

Pellicia ephora H.-S., 1870, *CorrespBl. zool. min. Ver. Regensburg* **1870** : 160.

Pellicia ephora Draudt in Seitz, 1922, *Macrolep. World* **5** : 897, pl. 174b.

Range : Mexico to Guiana and Colombia.

Port of Spain, 10.vii.1927 (*Forbes*); Santa Cruz Valley, 23.iii.1929 (*Huntingdon*).

358a. *Theagenes stator* Godman & Salvin.

Theagenes stator Godm. & Salv., 1900, *Biol. Cent. Amer. Lep. Rhop.* **1** : 460, pl. 91, ff. 33, 34, 35.

Theagenes stator Draudt in Seitz, 1922, *Macrolep. World* **5** : 911, pl. 177 f.

Range : Venezuela.

Maracas Valley, 15.iii.1922 (*F. W. Jackson*); Maupertuis, 12.i.1926 (*W. J. Kaye*); St. Ann's, 31.iii.1929 (*Huntingdon*).

359a. *Pellicia bromias* (Godman & Salvin).

Artenrotia bromias Godm. & Salv., 1910, *Biol. Cent. Amer. Lep.* 2 : 370, pl. 83, pp. 13, 14, 15.
Pellicia bromias Draudt in Seitz, 1922, *Macrolep. World* 5 : 891, pl. 174c.

Range : Mexico to Panama.

Manzanilla, 12.iii.1922; St. Ann's, at 1350 ft. (F. W. Jackson); Port of Spain, 2.iv.1927 (Fulda).

359b. *Cyclosaemia phidyle* Godman & Salvin.

Cyclosaemia phidyle Godm. & Salv., 1894, *Biol. Cent. Amer. Rhop.* 2 : 376.
Cyclosaemia phidyle Draudt in Seitz, 1922, *Macrolep. World* 5 : 894, pl. 174g.

Range : B. Guiana; Panama.

Tabaquite, 3.iv.1922 (F. W. Jackson).

359c. *Sostrata pusilla manzanilla* subsp. n.

Sostrata pusilla Godm. & Salv., 1894, *Biol. Cent. Amer. Rhop.* 2 : 398.
Sostrata pusilla Draudt in Seitz, 1922, *Macrolep. World* 5 : 901.

A very dark local race without any blue scaling at base but instead a lighter brown area with dark blackish spots. The large marginal area very dark brownish-black. Habitat : Manzanilla, east coast of Trinidad, 12.ii.1926 (W. J. Kaye).

Range of typical *S. pusilla* : Nicaragua to the Amazon.

Type in my collection.

360a. *Eudamidas melander* (Cramer).

Papilio melander Cram., 1782, *Pap. Exot.* 3 : t. 270, f. 14.
Eudamidas melander Draudt in Seitz, 1922, *Macrolep. World* 5 : 897, pl. 175c.

Range : Guiana, Venezuela.

Hololo Rd., 21.xi.1920; Rock Penal, 24.i.1921 (W. J. Kaye).

A fairly common species. Confusingly like *Eudamidas ozema*.

360b. *Eudamidas macaira jason* (Ehrmann).

Leucochitonea jason Ehrm., 1907, *Canad. Ent.* 39 : 317.
Leucochitonea jason Draudt in Seitz, 1923, *Macrolep. World* 5 : 915.

Range of species : Arizona to Venezuela.

Range of subspecies : Venezuela.

Port of Spain, 10.vii.1927 (Forbes); St. Ann's, 27.iii.1929 (Huntingdon).

This species is extremely like *Eudamidas ozema* but the genitalia are entirely different (vide Holland & Avinoff, 1927, *Ann. Carnegie Mus.* 17 : 343. Lepidoptera named by Ehrmann).

367a. *Mylon lassia* (Hewitson).

Leucochitonea lassia Hew., 1868, *Descr. Hesp.* : 49, n. 10.
Mylon lassia Draudt in Seitz, 1922, *Macrolep. World* 5 : 897, pl. 175c.

Range : Mexico to Panama and Venezuela.

Symonds Valley, 1.i.1921 (W. J. Kaye); St. Ann's, xii.1921, Hololo Rd., ii.1922; Tabaquite, 9.iv.1922 (F. W. Jackson).

Rather a common species.

367b. *Staphylus cupreiceps* Mabilie.

Staphylus cupreiceps Mab., 1891, *C.R. Soc. ent. Belg.* 1891 : lxiii.
Staphylus cupreiceps Draudt in Seitz, 1923, *Macrolep. World* 5 : 906.

Range : Mexico to Bolivia and E. Brazil.

Much larger than *S. aurocapilla* and the head, palpi and collar much more golden.

Port of Spain, 23.ii.26 (W. J. K.); Palmiste (Sir N. Lamont).

369a. *Gorgythion begga beggoides* Schaus.

Hesperia begga Prittw., 1868, *Stettin. ent. Ztg* **29** : 198, n. 60.

Gorgythion begga Draudt in Seitz, 1923, *Macrolep. World* **5** : 909, pl. 177d.

Gorgythion beggoides Schs., 1902, *Proc. U.S. nat. Mus.* **1902** : 431.

Range of species : Mexico to S. Brazil, Minas Geraes, Paraguay.

Range of subspecies : Trinidad.

Fondes Amandes, 19.iii.1922 (*F. W. Jackson*).

A rather variable species in size and intensity of markings.

369b. *Chiomara asychis* (Cramer).

Papilio asychis Cram., 1782, *Pap. Exot.* **4** : t. 334, E. F.

Chiomara asychis Draudt in Seitz, 1923, *Macrolep. World* **5** : 913, pl. 178a.

Range : Mexico to Argentina ; St. Vincent, Haiti.

In 1915 and at Manzanilla in iii.1922 ; both records made by Dr. F. W. Jackson. The species is certainly rare in Trinidad.

381e. *Lerodea fusca* (Grote & Robinson).

Hesperia fusca Grote & Rob., 1867, *Trans. Amer. ent. Soc.* **1** : 2.

Hesperia fusca Draudt in Seitz, 1923, *Macrolep. World* **5** : 941, pl. 982k.

Range : Chili.

Morne Diable (*Sir N. Lamont*), 10.xi.1929.

An inconspicuous species and probably of wide distribution.

HESPERIIDAE.

PAMPHILINAE.

381c. *Atalopedes campestris* (Boisduval).

Hesperia campestris Bdv. 1852, *Ann. Soc. ent. Fr.* (2) **10** : 316.

Atalopedes campestris Draudt in Seitz, 1924, *Macrolep. World* **5** : 931, pl. 180k, l.

Range : Arizona, California, Costa Rica, Colombia.

Port of Spain, 17.ii.1926 (*W. J. Kaye*).

Doubtless this species has hitherto escaped detection by being confused in the field with *Thymelicus vibex*. It is very obviously different and belongs to another genus.

381d. *Catia pudorina* (Plötz).

Hesperia pudorina Plötz, 1884, *Exot. Schmett.* : 20, Hesp. Tab. 587.

Catia pudorina Draudt in Seitz, 1924, *Macrolep. World* **5** : 983, pl. 181e.

Range : S. Brazil, Rio.

Near Cap de Ville, 1.iv.1929 (*Huntingdon*).

This bears some resemblance to *Euphyes catioides* Kaye, another Trinidad species.

382a. *Ephyriades otreus* (Stoll).

♀ *Papilio otreus* Stoll, 1782, *Pap. Exot.* **4** : t. 328, F.

Oleides zephodes Hübn., 1816-41, *Samml. exot. Schmett.*

Melanthes zephodes Draudt in Seitz, 1923, *Macrolep. World* **5** : 918, pl. 178i.

Ephyriades otreus Draudt *ibid.* : 878, pl. 172a.

♂ *Melanthes jamaicensis* Moesch., 1878, *Verh. zool.-bot. Ges. Wien* **1878** : 226.

Range : Cuba, Jamaica, Hispaniola, Guiana, Venezuela, Trinidad.

One ♀ in Coll. British Museum.

382b. *Euphyes catioides* Kaye.

Euphyes catioides Kaye, 1934, *Trans. ent. Soc. Lond.* **1924** : 418.

Range : Trinidad.

Ariapita Rd., 15.xi.1920 (W. J. Kaye).

The continual turning up of fresh and even new species in such a well-known locality as the Ariapita Rd. is testimony to the extraordinary richness in the number of Trinidad species.

382c. *Mucia thyia* Godman & Salvin.

Mucia thyia Gdm. & Salv., 1900, *Biol. Cent. Amer. Rhop.* **2** : 341.

Mucia thyia Draudt in Seitz, 1924, *Macrolep. World* **5** : 962.

Range : Mexico to Brazil, Matto Grosso.

Maraval, xi.1932-iii.1933 (A. Hall).

385. *Prenes nyctelius* (Latreille).

Hesperia nyctelius Latr., 1823, *Encycl. méth.* **9** : 746.

Hesperia ares Feld., 1862, *Verh. zool.-bot. Ges. Wien* **12** : 477.

Prenes ares Kaye, 1921, *Mem. Dept. Agric. Trinidad* **2** : 154.

Prenes nyctelius Kaye, *ibid.* : 137.

Prenes ares Feld., is a pure synonym of *Prenes nyctelius*.

386a. *Cydrus naevolus* Godman.

Cydrus naevolus Godm., 1900, *Biol. Cent.-Amer. Lep. Het.* **2** : 513, pl. 96, pp. 19, 20, 20a, 21.

Cydrus naevolus Draudt in Seitz, 1924, *Macrolep. World* **5** : 950, pl. 184a.

Range : Mexico to Panama; Brazil, Matto Grosso.

Fondes Amandes, 10.iv.1922 (F. W. Jackson).

388a. *Telles arcalaus* (Cramer).

Papilio arcalaus Cram., 1782, *Pap. Exot.* **4** : Tab. 391.

Thespicius submarmorata Kaye, 1924, *Trans. ent. Soc. Lond.* **1924** : 417.

Telles arcalaus Draudt in Seitz, 1923, *Macrolep. World* **5** : 951.

Range : Trinidad, Panama, Amazon.

St. Ann's, 1300 ft., 15.iv.1922 (F. W. Jackson); Camuto Rd., 100 ft., 28.v.1924 (C. L. Collenette); St. Ann's (R. Dick).

396b. *Cobalus arita* Schaus.

Cobalus arita Schs., 1902, *Proc. U.S. nat. Mus.* **1902** : 441.

Cobalus arita Draudt in Seitz, 1924, *Macrolep. World* **5** : 960.

Range : Trinidad.

I have not seen this species described by Dr. Schaus.

397a. *Cobalopsis lucifer* (Hübner).

Celaenorrhinus lucifer Hübn., 1825, *Zutr. Samml. exot. Schmett.* : 579-580.

Carystus dyscritus Mab. 1891, *C.R. Soc. ent. Belg.* **35** : cxv.

Cobalopsis dyscritus Draudt in Seitz, 1924, *Macrolep. World* **5** : 961.

Range : The Guianas.

Maupertuis, 16.ii.1922 (Sir N. Lamont).

394a. *Rhinthon cynea* (Hewitson).

Hesperia cynea Hew., 1876, *Ann. Mag. nat. Hist.* (4) **18** : 456.

Rhinthon cynea Godm., 1900, *Biol. Cent. Amer. Rhop.* **2** : 531, pl. 93, figs. 1-3.

Rhinthon cynea Draudt in Seitz, 1924, *Macrolep. World* **5** : 963.

Range : Mexico to Colombia, Venezuela.

Matura, 26.i.1921 (W. J. K.); Arima, 26.xi.1920 (W. J. K.).

394b. *Rhinthon megalops* Godman.

Rhinthon megalops Godm., 1900, *Biol. Cent. Amer. Rhôp.* 2: 533, pl. 98, ff. 11-13.

Rhinthon megalops Draudt in Seitz, 1924, *Macrolep. World* 5: 963.

Range: Panama, Mexico to Panama and doubtless in Venezuela and Colombia.

Tucuche, 1500 ft., 4.iv.1922 (*F. W. Jackson*).

399b. *Oeonus garima* Schaus.

Oeonus garima Schs., 1902, *Proc. U.S. nat. Mus.* 1902: 445.

Oeonus garima Draudt in Seitz, 1924, *Macrolep. World* 5: 962.

Range: Trinidad.

Another species that I have not seen; described by my friend Dr. W. Schaus.

399c. *Oeonus kayei* Bell.

Oeonus kayei Bell, 1931, *J. N.Y. ent. Soc.* 39: 524.

Range: Unknown.

Morne Diable, 26.xii.1927 (*Sir N. Lamont*); one in collection Bell taken 10.iv.—.

404a. *Phanes tavola* Schaus.

Phanes tavola Schs., 1902, *Proc. U.S. nat. Mus.* 1902: 445.

Phanes tavola Draudt in Seitz, 1924, *Macrolep. World* 5: 965.

Range: Trinidad.

Described by Dr. Schaus from a Trinidad specimen. This may be the same as *Phanes sylvia* Kaye, in which case *tavola* would have long priority.

408. *Eutychide hyperythrus* (Kaye).

Eutychide insulanus Bell, 1931, *J. N.Y. ent. Soc.* 39: 525.

Euroto hyperythrus Kaye, 1913, *Trans. ent. Soc. Lond.* 1913: 575.

409a. *Euroto etelka* Schaus.

Euroto etelka Schs., 1902, *Proc. U.S. nat. Mus.* 1902: 443.

Euroto etelka Draudt in Seitz, 1924, *Macrolep. World* 5: 965.

Range: Trinidad.

Described from a Trinidad specimen.

411a. *Philibodes chittara* Schaus.

Philibodes chittara Schs., 1902, *Proc. U.S. nat. Mus.* 1902: 444.

Philibodes chittara Draudt in Seitz, 1924, *Macrolep. World* 5: 967.

Range: Trinidad.

414a. *Papias infuscata* (Plötz).

Hesperia infuscata Plötz, 1882, *Stettin. ent. Ztg* 43: 315.

Range: Trinidad.

Maracas, 24.xi.1920 (*W. J. Kaye*).

414b. *Papias ctyanus* Schaus.

Papias ctyanus Schs., 1902, *Proc. U.S. nat. Mus.* 24: 447.

Papias styanus Draudt in Seitz, 1924, *Macrolep. World* 5: 970.

Range: S. Brazil, Novo Friburgo.

Another species not yet seen by me.

426a.⁴ *Atrytone mella* Godman.*Atrytone mella* Godm., 1900, *Biol. Cent. Amer. Lep.* 2 : 492.*Atrytone mella* Draudt in Seitz, 1924, *Macrolep. World* 5 : 937.

Range : Mexico to Bolivia.

Palmiste, 7.xi.1929 (*Sir N. Lamont*).

Not common.

427a. *Padraona maracanae* Bell.*Padraona maracanae* Bell, 1934, *Amer. Mus. Novit.* 745 : 4.

Range : Trinidad and Peru.

The species was described from a Trinidad specimen.

428a. *Carystus claudianus* (Latreille).*Hesperia claudianus* Latr., 1823, *Enc. Meth.* 9 : 756, n. 77.

Range : Brazil.

Palo Seco, iv.1922 (*O. Latour*); St. Ann's (*R. Dick*).

A fine striking species.

428b. *Carystus ebusus* (Cramer).*Papilio ebusus* Cram., 1782, *Pap. Exot.* 4 : t. 300, C, D.*Phanus ebusus* Kaye, 1904, *Trans. ent. Soc. Lond.* 1904 : 212.

Range : British and Dutch Guiana.

Originally in Crowfoot's List. Morne Diable, 4.i.1916 (*Sir N. Lamont*);
Tabaquite, 14.i.1921 (*W. J. K.*); Fondes Amandes, 17.v.1922 (*F. W. Jackson*).

A fine species with a white hind-wing.

428c. *Carystus fantasos* (Cramer).*Papilio fantasos* Cram., 1780, *Pap. Exot.* 4 : t. 300.

Range : Mexico to Brazil.

Only one record so far of this fairly common and widely distributed species,
i-ii.1926 (*W. J. Kaye*).428d. *Carystus phorcus* (Cramer).*Papilio phorcus* Cram., 1779, *Pap. Exot.* 2 : 156, D.

Range : Lower Amazon, Para, Santarem, Surinam.

1 ♀, 12.i.1921, Palmiste (*W. J. Kaye*).428e. *Carystus bursa* Hewitson.*Carystus bursa* Hew., 1866, *Trans. ent. Soc. Lond.* (3) 2 : 491.*Carystus bursa* Draudt in Seitz, 1924, *Macrolep. World* 5 : 979, pl. 188f.

Range : Amazon (Para).

Siparia, 25.iii.1932 (*Sir N. Lamont*).Above this species is very similar to *C. phyllus*.435. *Cymaenes silius pericles* Möschler.This species was recorded as *Cymaenes pericles* but is really a subspecies of the widely spread *silius*.Recorded by G. B. Longstaff as *silius* in 1912, *Butterfly Hunting in Many Lands* : 326.⁴ *Atrytone eulogius* Plötz. Also recorded by Sir N. Lamont.

435a. *Cymaenes sipariana* Kaye.

Cymaenes sipariana Kaye, 1924, *Trans. ent. Soc. Lond.* 1924 : 418.

Range : Trinidad.

Siparia, 2.iv.1922 (F. W. Jackson).

An obscure-looking species without any markings.

435b. *Cymaenes lunata* Plötz.

Cymaenes lunata Plötz, 1883, *Stettin. ent. Ztg* 44 : 56.

Cymaenes lunata Draudt in Seitz, 1924, *Macrolep. World* 5 : 983.

Range : 1 ♂ Trinidad, x-xii.1920 (A. Hall).

Very similar to *Cymaenes silius pericles* but has the transverse black band of the fore-wing broken and irregular.

446a. *Thracides salius* (Cramer).

Papilio salius Cram., 1779, *Pap. Exot.* 1 : t. 68, f. E.

Range : Guiana.

St. Ann's Valley (W. J. K.); Manzanilla, 29.i.1922 (F. W. Jackson).

447. *Thracides antoninus* (Latreille).

Add synonyms.

Thracides longirostris Sepp, 1848, *Surin. Vlind.* 1 : t. 27.

Nyctus triangularis Kaye, 1913, *Trans. ent. Soc. Lond.* 1913 : 579; 1921, *Mem. Dept. Agric. Trinidad* 2 : 136.

447b. *Thracides telegonus* (Esper).

Papilio telegonus Esp., 1778, *Schmett.* 1 : 56, f. 3.

Range : Mexico to Dutch Guiana.

Very like *T. longirostris*, but always smaller and with the spots on underside of hind-wing silvery yellowish.

447c. *Thracides nanea* Hewitson.

Thracides nanea Hew., 1867, *Exot. Butt.* 4 : t. 1, figs. 4, 5.

Range : Colombia, Brazil, Para Maranhao.

Rio Claro, 15.ii.1926 (Sir N. Lamont).

Re the Systematic Order of Species in the Addenda to Catalogue of Lepidoptera Rhopalocera (1921, *Mem. Dept. Agric. Trinidad* 2).

Species No. 454 alter to 305a

„	455	„	308a
„	456	„	355a
„	457	„	365a
„	458	„	396a
„	459	„	385a
„	460	„	385b
„	462	„	445a
„	463	„	340a

